MODEL G-80TVF(GT-504E)

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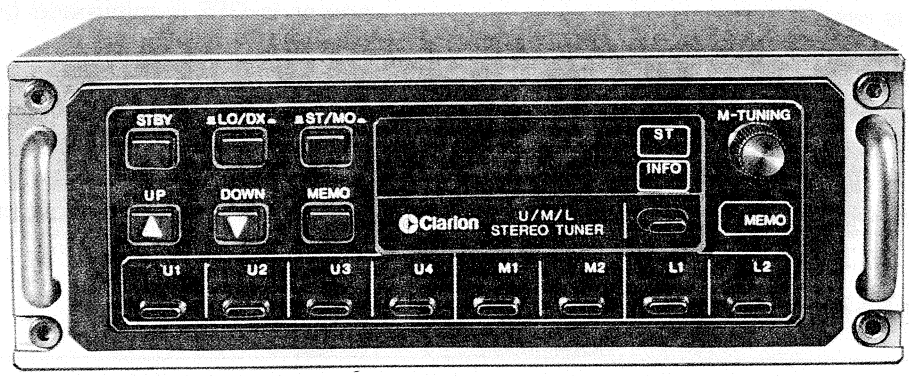


SPECIFICATIONS:

Circuit system: Superheterodyne
Tuning system: Electronic tuning
Receive range: LW 155kHz to 285kHz
MW 530kHz to 1,605kHz
UKW 87.5MHz to 104MHz
Intermediate frequency:
LW 452.5kHz
MW 452.5kHz
UKW 10.7MHz
Maximum sensitivity: LW Less than 30dB
MW Less than 20dB
UKW Less than 10dB
Quieting sensitivity: LW Less than 44dB (at 20dB S/N)
MW Less than 33dB (at 20dB S/N)
UKW Less than 15dB (at 30dB S/N)
Limiting sensitivity: UKW Less than 30dB
A.G.C F.O.M: LW More than 35dB
MW More than 40dB
Separation: UKW More than 20dB
Fidelity: LW 100Hz +1±3dB
4,000Hz −20±5dB
MW 100Hz +1±3dB
4,000Hz −19±5dB
UKW 100Hz 0±3dB
7,000Hz −13±5dB
Auto tuning stop sensitivity:

	DX	LO
LW	20dB ~ 50dB	46dB ~ 74dB
MW	20dB ~ 50dB	46dB ~ 74dB
UKW	15dB ~ 31dB	35dB ~ 55dB

Power supply voltage: DC 14.0V (10.8V to 15.6V) Negative ground
Current consumption: Less than 0.5A
Less than 5mA (With back-up)
Output impedance: 2kΩ
Output level: 1V
Semiconductors: 2 LSIs, 10 ICs, 3 FETs, 44 transistors and 70 diodes
Dimensions: Width 140mm
Height 50mm
Depth 155mm
Weight: 1.25kg

*The circuit may be changed without notice for improvement.

Printed in Japan 298-2502-00
GT-504E

■COMPONENTS:

○ **GT-504E-01**

	Main unit	1
300-4976-00	Mounting bracket	1
300-5074-00	Mounting bracket	1
852-5115-00	Extension lead	1
852-6457-00	Extension lead	1

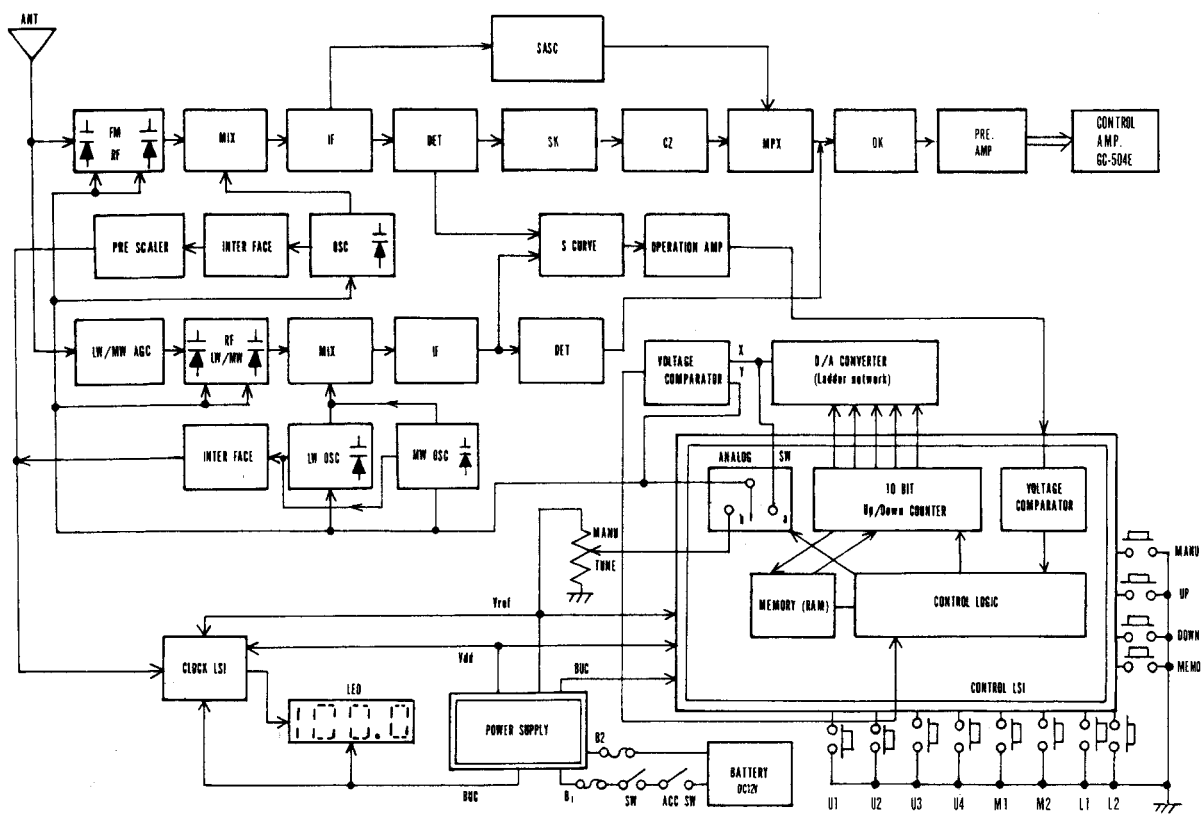
921-7032-00	Parts bag	1
700-5016-10	Tap screw (M5x16)	3
725-0181-00	Plate nut	3
734-5010-31	D-sems hex-bolt (M5x10)	3
740-5000-10	Flat washer	3

■FEATURES:

1. Electronic tuner with digital display.
2. Automatic station-selection and preset station-selection is possible with soft-touch switch.
3. Preset station-selection for 2 LW stations and 2 MW stations and 4 UKW stations is possible.
4. 1 control LSI and 1 digital LSI are used as center of the whole system.
6. P.L.L. circuit is used for stereo.
6. An exclusive noise killer system is built-in to remove ignition noise, etc. during UKW reception.
7. Regarding SASC
   This circuit is used to further improve FM reception and widen the service area.
   To prevent worsening of S/N on weak signals separation of stereo reception is purposely reduced by this circuit together with reduction in higher components of the noise.
   This circuit assures you of Hi-Fi UKW with better S/N. (Signal Actuated Stereo Control)
8. The back-up current (for memory) when the power is OFF is minimized because a C MOS is used. (Less than 5mA)
9. Motor antenna lead
   Antenna operate automatically with radio switch since full automatic motor antenna connects at the antenna lead.
10. Provided radio traffic information system.

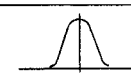
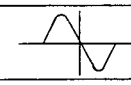
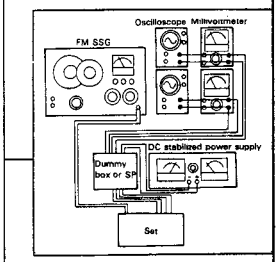
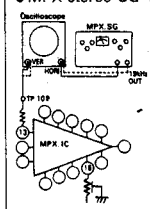
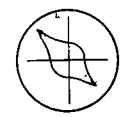
■BLOCK DIAGRAM:

VOLTAGE SYNTHESIZER BLOCK DIAGRAM ELECTRONIC TUNING SYSTEM

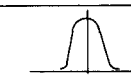
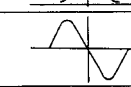
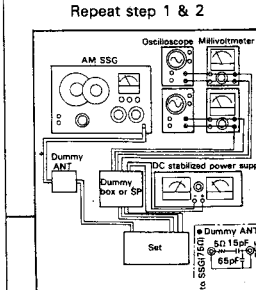


■ADJUSTMENT:

○ UKW section

Item	Step	Input	Frequency	Output	Method of adjustment		Instruments	Remark
IF	1	TP101	10.7MHz	TP102	IFT101	adjust a maximum symmetrical waveform	● General scope	
S-curve	2				IFT102,103			
Frequency range & Tracking	1	Antenna receptacle	105MHz	Meter across the speaker voice coil	TC103 (at upper limit by manual tuning)	Peak point of the set's output	● Oscilloscope ● S.S.G ● V.T.V.M ● Dummy box	Repeat step 1 & 2  Repeat step 3 & 4
	2		87.5MHz		L105 (at lower limit by manual tuning)			
	3		104MHz		TC101,102	Output of the set to max.		
	4		88MHz		L102,103			
MPX (VCO)		TP109	19kHz pilot signal	TP109	VR105	Adjust the Lissajuous figure does not move	● MPX stereo SG 	ST position  After adjust
SASC		Antenna receptacle	Set to the specified modulation (30%), assuming an FM SSG output 55dB (98MHz), modulation frequency 7kHz.	Meter across the speaker voice coil	VR107	Set the output level to 0dBm (=0.775V) using the volume control. Set the FM SSG output to 37dB and adjust VR so that the output level is −3dBm.	● MPX stereo SG ● Oscilloscope ● V.T.V.M ● Frequency SG	
Stop sensitivity			98MHz		VR106		● S.S.G	DX position
Frequency indication		Tuning a station having a known frequency. Connect TP501 and earth. Since the DFI will flash if the indication is incorrect, adjust VR501 so that the indication matches the receiving frequency and the DFI stop flashing. After adjustment, disconnect TP501 and earth.						
Vari-cap diode voltage		Connect the power supply to the set and switch ON. Connect the digital voltmeter to TP403 and adjust VR401 to obtain 8.0V. Next, connect the digital voltmeter to TP404 and adjust VR402 to obtain 1.2V.						
SK		Connect a frequency counter to TP105, and adjust VR101 to 57kHz.						
DK		Connect a frequency counter to TP301, and adjust VR301 to 125Hz.						

○ MW, LW section

Item	Step	Input	Frequency	Output	Method of adjustment		Instruments	Remark
IF(M,L)		TP202	452.5kHz	TP203	IFT201,202	Adjust a maximum symmetrical waveform	● General scope	
S-curve (M,L)				TP205	IFT203,204			
Frequency range & Tracking	1	Antenna receptacle	1,615kHz(M) 290kHz(L)	Meter across the speaker voice coil	TC205(M) TC206(L) (at upper limit by manual tuning)	Peak point of the set's output.	● Oscilloscope ● S.S.G ● V.T.V.M ● Dummy ant. ● Dummy box	Repeat step 1 & 2  Oscilloscope Millivoltmeter AM SSG Dummy ANT DC stabilized power supply Dummy box or SP Set ● Dummy ANT 5Ω 15pF 65pF to SSG(75Ω) Repeat step 3 & 4
	2		515kHz(M) 150kHz(L)		L207(M) L208(L) (at lower limit by manual tuning)			
	3		1,400kHz(M) 280kHz(L)		TC201,203(M) TC202,204(L)	Output of the set to max.		
	4		600kHz(M) 160kHz(L)		L203,205(M) L204,206(L)			
Stop sensitivity (M,L)			1,000kHz		VR201		● S.S.G	at DX position
Frequency indication (M,L)		Tuning a station having a known frequency. Connect TP501 and TP502. Since the DFI will flash if the indication is incorrect, adjust VR502 so that the indication matches the receiving frequency and the DFI stop flashing. After adjustment, disconnect TP501 and TP502.						

■CAUTIONS ON HANDLING:

1) Since the memory is not set, receive broadcasts using Search or Manual buttons when first installing the unit in a car. Then, preset the memories.
2) The preset memory is lost when the back-up battery is removed, and must be re-adjusted.

■TROUBLESHOOTING:

● Tuner section

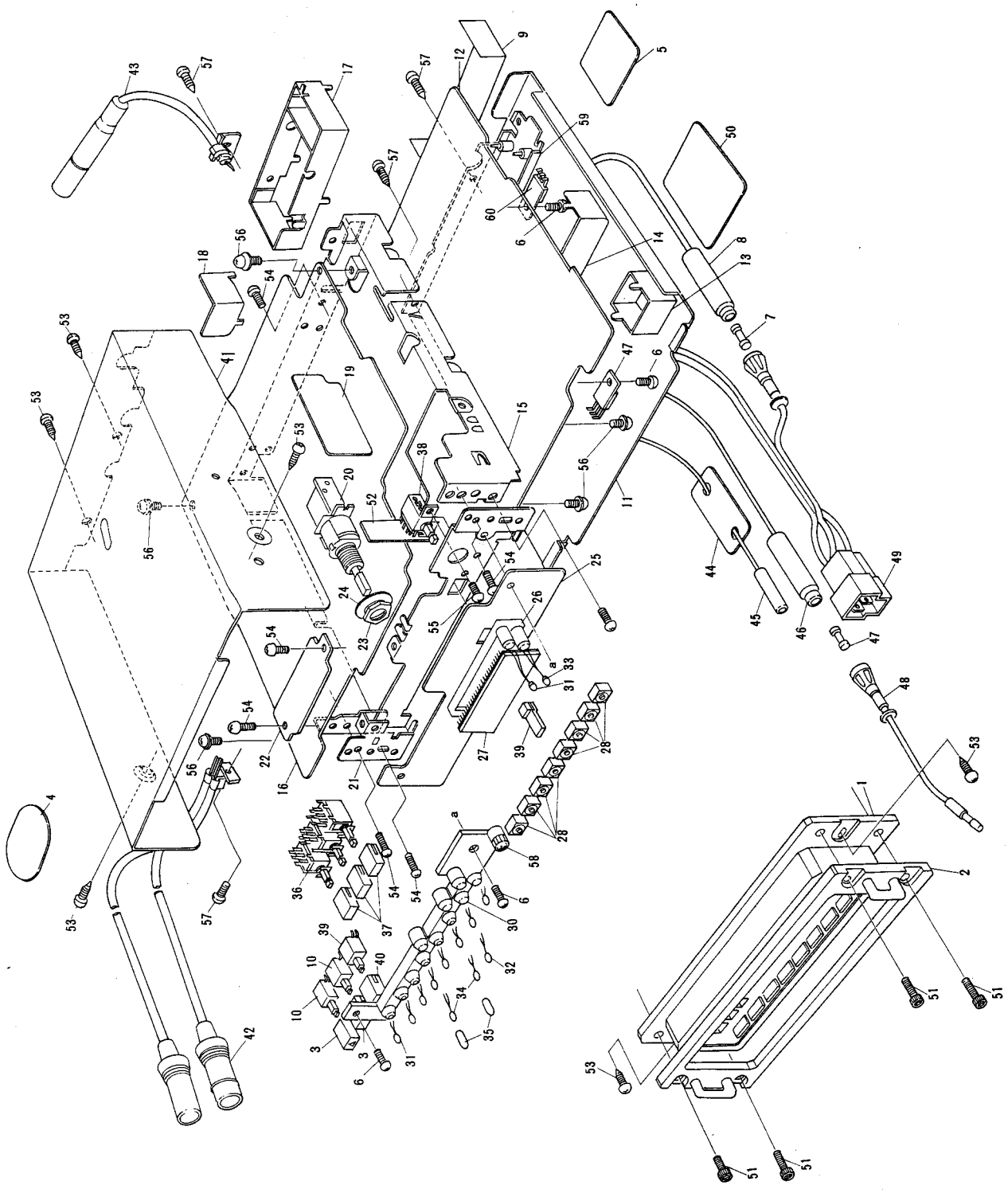
Mal-function	Defective point
(MW/LW) No sound	● Transistor Q201~211,Q213 ● IC201 ● IFT201,202
(MW/LW) Sensitivity is poor	● Adjustment faulty ● Q201~211,Q213 ● IC201 ● L203~208 ● D201~204
(MW/LW) Oscillation	● C204,205,210 ● C236,238,241,242
(UKW) No sound	● Q101~104,109 ● IC102~105
(UKW) Sensitivity is poor	● Q101~104,109 ● IC102~105 ● D101~103 ● L101~105 ● IFT101~105 ● Adjustment faulty
(UKW) Oscillation	● C104,108,124,130,136,137 141,142,143 ● L104
(UKW) Separation is bad	● IC105 ● Q107,108 ● D104,105 ● VR104,105 adjustment faulty
(Common) No sound at all	● Q302,306 ● IC301 ● DIN cord (Black) disconnection
(Common) Distortion	● Q302,306 ● IC301

● Control section

Mal-function	Defective point
Does not Display	● Digital display (001-0264-00) ● IC501 (LC7250) ● Q501,503 ● IC401
Mis indicate on UKW	● IC101 ● Q102,103 ● L106
Misindicate on MW/LW	● Q209,210,211,214 ● L207,208
Preset does not work	● IC401,402 ● D419~439 ● R472~477
Memory does not work	● IC402 ● R446 ● IC401
MW/LW search does not stop	● Q216,217 ● IC402 ● IFT203,204 ● D207,208
UKW search does not stop	● IC402 ● IFT102,103 ● D106,107
Manual tuning does not work	● IC402 ● C413,414 ● R438,442

■EXPLODED VIEW:

◎Main section



■PARTS LIST:

◎Main section

REF.NO.	PART NO. (ORDER NO.)	DESCRIPTION	Q'TY
1	940-0241A	Escutcheon ass'y	1
2	940-0204A	Escutcheon ass'y	1
3	382-0242-00	Button (up/down)	2
4	290-2567-00	Label	1
5	285-0656-00	Guide label	1
6	714-3006-81	Machine screw (M3x6)	4
7	120-0010-00	Fuse (1A)	2
8	850-1919-00	A-lead	1
9	347-0938-00	Insulator	1
10	013-3553-00	Switch (up/down)	2
11	304-0328-00	Lower cover	1
12	099-5792-00	P.W.B	1
13	330-6691-00	Shield case	1
14	330-7028-00	Shield plate	1
15	312-0205-00	Chassis	1
16	099-5791-00	P.W.B	1
17	330-6383-01	Shield case	1
18	330-6703-00	Shield plate	1
19	099-5795-00	P.W.B	1
20	012-3807-00	Variable resistor	1
21	309-0407-00	Front plate	1
22	099-5794-00	P.W.B	1
23	722-0231-00	Hexagon nut	1
24	745-0514-02	Flat washer	1
25	099-5793-00	P.W.B	1
26	335-1170-00	DFI-holder	1
27	001-0264-00	Diode (DFI)	1
28	013-3449-00	Switch	8
29	013-3520-00	Switch	1
30	335-1212-00	LED-holder	1

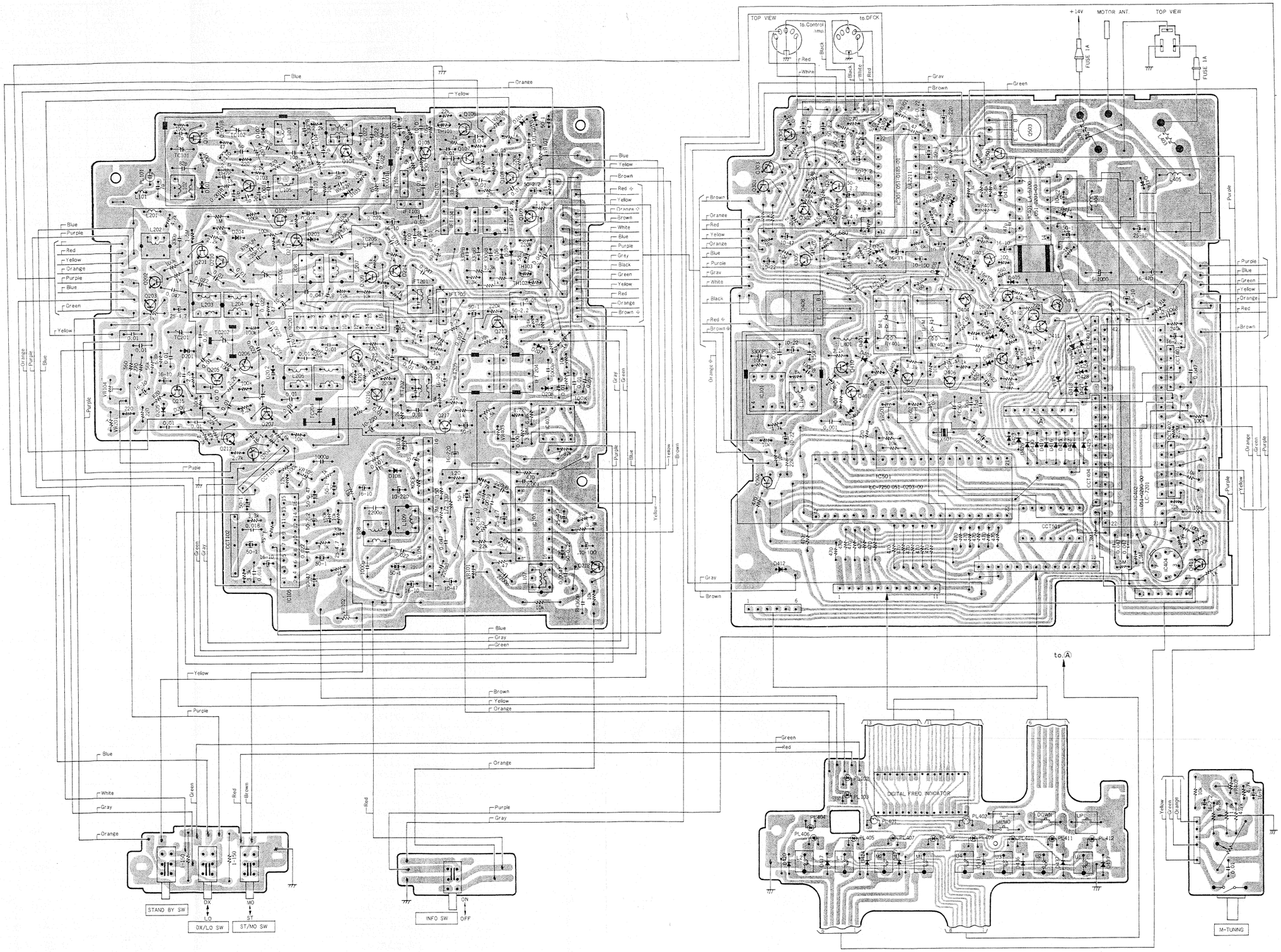
REF.NO.	PART NO. (ORDER NO.)	DESCRIPTION	Q'TY
31	001-0140-00	Diode (RED)	9
32	001-0223-00	Diode (YELLOW)	1
33	001-0265-00	Diode (ORANGE)	1
34	017-0337-06	Pilot lamp	2
35	345-2830-03	P.L cap	2
36	013-3346-05	Switch	3
37	382-0153-01	Button	3
38	013-3346-02	Switch	1
39	382-0218-00	Button	1
40	382-0219-00	Button	1
41	310-1004-00	Upper case	1
42	852-6363-00	Extension lead	1
43	092-0542-01	Antenna receptacle	1
44	285-0667-00	Label	1
45	852-4637-00	Extension lead	1
46	850-1822-02	A-lead	1
47	103-0325-04	Transistor (2SD325RD)	1
48	850-2036-01	A-lead	1
49	850-2085-00	A-lead	1
50	286-4497-00	Set plate	1
51	716-0333-00	Ornamental screw	4
52	099-5796-00	P.W.B	1
53	731-3005-89	Tap-tight (M3x5)	6
54	714-3004-81	Machine screw (M3x4)	8
55	714-2604-81	Machine screw (M2.6x4)	1
56	735-3006-11	Double-sems-screw	5
57	731-3005-80	Tap-tight (M3x5)	4
58	380-3981-00	Knob	1
59	944-0567-00	Filter ass'y	1
60	103-0600-05	Transistor (2SD600)	1

◎Electrical section

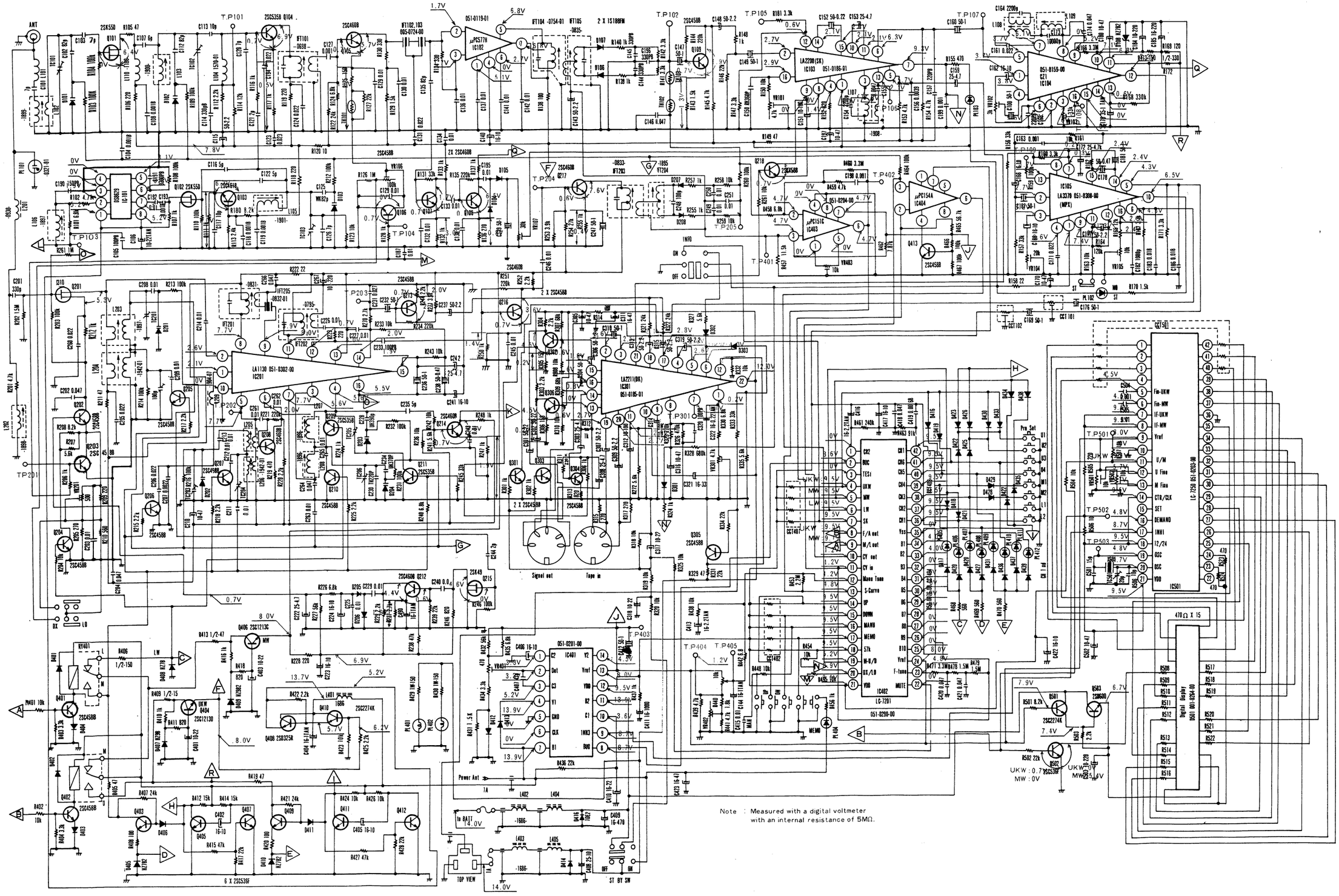
REF.NO.	PART NO. (ORDER NO.)	DESCRIPTION	Q'TY
$D_{301,302,303,401,402,403,404,406,411,412,413,416\sim439}$	001-0151-00	Diode (1S953)	35
$D_{104,105,106,107,205,206,207,208}$	001-0180-00	Diode (1S188FM)	8
$D_{44,416}$	001-0186-00	Diode (10E2)	2
$D_{108,405,408,410}$	001-0212-04	Diode (HZ7B2)	4
$D_{407,409}$	001-0213-04	Diode (HZ9B2)	2
$D_{101,102,103}$	001-0236-00	Diode (SVC201)	3
$D_{201,202,203,204}$	001-0261-01	Diode (SVC303)	4
D_{501}	001-0264-00	Diode (DFI)	1
$TH_{102,103}$	002-0184-00	Thermistor (30kΩ)	2
TH_{101}	002-0185-00	Thermistor (2kΩ)	1
$TC_{103,205}$	004-1512-02	Trimmer	2
$TC_{101,102,201,203,501}$	004-1512-03	Trimmer	5
TC_{206}	004-1521-00	Trimmer	1
$TC_{202,204}$	004-1532-00	Trimmer	2
IFT_{101}	005-0698-00	IF-trans	1
$IFT_{102,103}$	005-0724-00	IF-trans	2

REF.NO.	PART NO. (ORDER NO.)	DESCRIPTION	Q'TY
IFT_{104}	005-0754-01	IF-trans	1
IFT_{202}	005-0795-00	IF-trans	1
IFT_{201}	005-0831-00	IF-trans	1
IFT_{205}	005-0832-01	IF-trans	1
IFT_{203}	005-0833-00	IF-trans	1
IFT_{105}	005-0835-00	IF-trans	1
L_{404}	009-0470-02	Choke	1
L_{405}	009-0603-00	Choke	1
L_{201}	010-0930-00	Coil	1
L_{110}	010-1180-00	Coil	1
L_{104}	010-1570-01	Coil	1
$L_{401,402,403}$	010-1686-00	Coil	3
L_{101}	010-1708-00	Coil	1
L_{109}	010-1820-00	Coil	1
L_{108}	010-1821-00	Coil	1
L_{204}	010-1895-00	Coil	1
L_{208}	010-1896-01	Coil	1

PRINTED WIRING BOARD:



■CIRCUIT DIAGRAM:



REF.NO.	PART NO. (ORDER NO.)	DESCRIPTION	Q'TY
L_{207}	010-1896-02	Coil	1
$L_{106,203,205}$	010-1897-00	Coil	3
L_{202}	010-1898-00	Coil	1
L_{102}	010-1899-00	Coil	1
L_{103}	010-1900-00	Coil	1
L_{105}	010-1901-00	Coil	1
L_{209}	010-1904-07	Coil	1
L_{107}	010-1908-01	Coil	1
$L_{204,206}$	010-1942-01	Coil	2
VR_{102}	012-2700-00	Variable resistor (3kΩ)	1
VR_{106}	012-3170-05	Variable resistor (100kΩ)	1
VR_{104}	012-3170-06	Variable resistor (20kΩ)	1
VR_{107}	012-3249-00	Variable resistor (30kΩ)	1
VR_{401}	012-3392-00	Variable resistor (470Ω)	1
VR_{402}	012-3614-05	Variable resistor (4.7kΩ)	1
VR_{201}	012-3707-01	Variable resistor (500Ω)	1
$VR_{101,301}$	012-3808-05	Variable resistor (4.7kΩ)	2
$VR_{502}^{105,403,501}$	012-3808-06	Variable resistor (10kΩ)	4
VR_{103}	012-3808-08	Variable resistor (33kΩ)	1
$RY_{401,402}$	014-0447-00	Relay	2
PL_{101}	017-0321-01	Pilot lamp (NEON)	1
$PL_{401,402}$	017-0337-06	Pilot lamp	2
$CCT_{101,102}$	050-0051-00	CCT	2
CCT_{404}	050-0076-00	CCT	1
CCT_{401}	050-0077-01	CCT (470kΩx4)	1
CCT_{402}	050-0078-01	CCT (470kΩx5)	1
CCT_{403}	050-0081-00	CCT (100kΩx6)	1
CCT_{501}	050-0087-00	CCT (470Ωx7)	1
IC_{102}	051-0119-01	IC (μPC577H)	1
IC_{104}	051-0159-00	IC (Noise killer)	1
IC_{301}	051-0185-01	IC (LA2211)	1
IC_{103}	051-0186-01	IC (LA2200)	1
IC_{401}	051-0201-00	IC (LA5700)	1
IC_{501}	051-0203-00	IC (LC7250)	1
IC_{403}	051-0204-00	IC (μPC151C)	1
IC_{404}	051-0205-00	IC (μPC154A)	1
IC_{101}	051-0206-00	IC (DS8629)	1
IC_{402}	051-0290-00	IC (LC7201)	1
IC_{201}	051-0302-00	IC (LA1130)	1
IC_{105}	051-0308-00	IC (LA3370)	1
Q_{201}	060-0052-00	FET (J310)	1
X_{501}	061-1030-00	Crystal	1
$Q_{106,109,202,203,204,205,206,207,210,213,218,301,302,303,304,305,306,401,402}$	102-0458-02	Transistor (2SC458B)	19
$Q_{105,107,108,208,212,214,216,217}$	102-0460-02	Transistor (2SC460B)	8
Q_{103}	102-0461-02	Transistor (2SC461B)	1
$Q_{104,209,211}$	102-0535-02	Transistor (2SC535B)	3
$Q_{403,405,407,409,411,412,502}$	102-0536-06	Transistor (2SC536F)	7
$Q_{404,406}$	102-1213-03	Transistor (2SC1213C)	2
$Q_{410,501}$	102-2274-05	Transistor (2SC2274)	2
Q_{408}	103-0325-04	Transistor (2SD325D)	1

REF.NO.	PART NO. (ORDER NO.)	DESCRIPTION	Q'TY
Q_{503}	103-0600-05	Transistor (2SD600)	1
Q_{215}	108-0049-08	FET (2SK49H)	1
$Q_{101,102}$	108-0055-04	FET (2SK55D)	1
R_{465}	032-0049-00	Film resistor (56.7kΩ)	1
R_{462}	032-0049-01	Film resistor (7.87kΩ)	1
R_{457}	032-0049-02	Film resistor (11.5kΩ)	1
R_{506}	111-1001-21	Film resistor (¼Ws10Ω)	1
R_{120}	111-1001-22	Film resistor (¼Ws10Ω)	1
$R_{138,408,420}$	111-1011-22	Film resistor (¼Ws100Ω)	3
$R_{128,206}$	111-1021-21	Film resistor (¼Ws1kΩ)	2
$R_{224,247,248,250,255,257,301,302,306,312,324,410,416,437,456}^{107,111,116,117,132,133,137,139,140,148,162,212}$	111-1021-22	Film resistor (¼Ws1kΩ)	27
$R_{259,507}$	111-1031-21	Film resistor (¼Ws10kΩ)	2
$R_{310,318,319,320,325,332,401,402,424,426,438,448,454,455,504}^{123,150,161,163,204,233,236,242,243,258,261,308}$	111-1031-22	Film resistor (¼Ws10kΩ)	27
R_{159}	111-1041-21	Film resistor (¼Ws100kΩ)	1
$R_{214,216,231,232,246,260,423,464,466,467}^{103,104,108,109,110,121,203,213}$	111-1041-22	Film resistor (¼Ws100kΩ)	18
R_{126}	111-1051-22	Film resistor (¼Ws1MΩ)	1
R_{169}	111-1211-22	Film resistor (¼Ws120Ω)	1
R_{114}	111-1231-21	Film resistor (¼Ws12kΩ)	1
R_{165}	111-1231-22	Film resistor (¼Ws12kΩ)	1
R_{164}	111-1241-22	Film resistor (¼Ws120kΩ)	1
R_{409}	111-1501-42	Film resistor (½W15Ω)	1
$R_{125,173,305,306}$	111-1511-22	Film resistor (¼Ws150Ω)	4
R_{406}	111-1511-42	Film resistor (½W150Ω)	1
$R_{129,143,170,431}$	111-1521-22	Film resistor (¼Ws1.5kΩ)	4
$R_{412,414}$	111-1531-22	Film resistor (¼Ws15kΩ)	2
$R_{202,478,479}$	111-1551-22	Film resistor (¼Ws1.5MΩ)	3
R_{440}	111-1821-21	Film resistor (½W1.8kΩ)	1
$R_{158,222}$	111-2201-22	Film resistor (¼Ws22Ω)	2
$R_{223,228,505}^{106,118,119,209}$	111-2211-22	Film resistor (¼Ws220Ω)	7
$R_{220,225,229,244,252,303,304,422,503}^{112,215,217,218}$	111-2221-22	Film resistor (¼Ws2.2kΩ)	13
$R_{334,417,428,436}^{127,146,239,331}$	111-2231-22	Film resistor (¼Ws22kΩ)	8
$R_{251,311}^{135,144,221,234}$	111-2241-22	Film resistor (¼Ws220kΩ)	6
R_{453}	111-2251-22	Film resistor (¼Ws2.2MΩ)	1
R_{113}	111-2421-22	Film resistor (¼Ws2.4kΩ)	1
$R_{421}^{122,321,322,407}$	111-2431-22	Film resistor (¼Ws24kΩ)	5
R_{461}	111-2441-22	Film resistor (¼Ws240kΩ)	1
$R_{136,205,315,317}$	111-2711-22	Film resistor (¼Ws270Ω)	4
R_{270}	111-2721-21	Film resistor (½Ws2.7kΩ)	1
R_{237}	111-2721-22	Film resistor (¼Ws2.7kΩ)	1
R_{254}	111-2731-21	Film resistor (¼Ws27kΩ)	1
R_{323}	111-2741-22	Film resistor (¼Ws270kΩ)	1
$R_{130,134}$	111-3311-22	Film resistor (¼Ws330Ω)	2
R_{172}	111-3311-42	Film resistor (½W330Ω)	1
$R_{142,181}$	111-3321-21	Film resistor (¼Ws3.3kΩ)	2
$R_{171,403,404,434}^{141,147,160,167}$	111-3321-22	Film resistor (¼Ws3.3kΩ)	8

REF.NO.	PART NO. (ORDER NO.)	DESCRIPTION	Q'TY
R_{168}	111-3341-22	Film resistor (¼Ws330kΩ)	1
R_{314}	111-6811-21	Film resistor (¼Ws680Ω)	1
$R_{333}^{131,156,157,245}$	111-3331-22	Film resistor (¼Ws33kΩ)	5
R_{460}	111-3351-21	Film resistor (¼Ws3.3MΩ)	1
$R_{166,471}$	111-3351-22	Film resistor (¼Ws3.3MΩ)	2
$R_{253,271}$	111-3921-22	Film resistor (¼Ws3.9kΩ)	2
R_{105}	111-4701-21	Film resistor (¼Ws47Ω)	1
$R_{419}^{149,211,329,405}$	111-4701-22	Film resistor (¼Ws47Ω)	5
R_{413}	111-4701-42	Film resistor (½W47Ω)	1
$R_{520}^{510,511,518,519}$	111-4711-21	Film resistor (¼Ws470Ω)	5
$R_{509,512,513,514,515,516,517,521,522,523,524}^{155,219,508}$	111-4711-22	Film resistor (¼Ws470Ω)	14
R_{439}	111-4721-21	Film resistor (¼Ws4.7kΩ)	1
$R_{201,441,459}^{102,145,153,154}$	111-4721-22	Film resistor (¼Ws4.7kΩ)	7
$R_{238,415,427}$	111-4731-22	Film resistor (¼Ws47kΩ)	3
R_{326}	111-4741-22	Film resistor (¼Ws470kΩ)	1
$R_{210,468,469,470}$	111-5611-22	Film resistor (¼Ws560Ω)	4
$R_{335}^{207,241,272,327}$	111-5621-22	Film resistor (¼Ws5.6kΩ)	5
$R_{227,432}$	111-5631-22	Film resistor (¼Ws56kΩ)	2
R_{101}	111-6821-21	Film resistor (¼Ws6.8kΩ)	1
$R_{435,442,458}^{124,226,240,330}$	111-6821-22	Film resistor (¼Ws6.8kΩ)	7
$R_{307,309}$	111-6831-22	Film resistor (¼Ws68kΩ)	2
R_{328}	111-6841-22	Film resistor (¼Ws680kΩ)	1
$R_{418}^{152,246,313,411}$	111-8211-22	Film resistor (¼Ws820Ω)	5
R_{180}	111-8221-21	Film resistor (¼Ws8.2kΩ)	1
$R_{208,501}$	111-8221-22	Film resistor (¼Ws8.2kΩ)	2
R_{463}	111-9131-22	Film resistor (¼Ws91kΩ)	1
$R_{429,430}$	114-1511-51	Film resistor (1W150Ω)	2
C_{152}	042-0140-00	Electrolytic capacitor (50V0.22μF)	1
C_{179}	042-0186-02	Electrolytic capacitor (35V1μF TAN)	1
C_{106}	042-0199-01	Electrolytic capacitor (10V22μF TAN)	1
$C_{184,267,503}$	042-0219-00	Electrolytic capacitor (10V220μF)	3
$C_{413,416}$	042-0227-00	Electrolytic capacitor (16V2.2μF TAN)	2
$C_{404,414,490}$	042-0239-00	Electrolytic capacitor (16V1μF TAN)	3
C_{322}	042-0249-00	Electrolytic capacitor (16V0.22μF TAN)	1
$C_{151,312,314}$	042-0264-00	Electrolytic capacitor (10V100μF)	3
C_{411}	042-0265-00	Electrolytic capacitor (16V1000μF)	1
$C_{193}^{104,108,118,119}$	043-0125-00	Ceramic capacitor (0.001μFB)	5
$C_{504}^{127,163,198,199}$	141-1023-10	Polyester capacitor (50V0.001μF)	5
$C_{211,212,213,214,225,226,227,229,240,243,245,246,249,250,251,261,262,263,265,415,505}^{129,130,132,133,134,136,137,138,141,142,187,192,195,203,208,209}$	141-1033-10	Polyester capacitor (50V0.01μF)	37
$C_{183,186}$	141-1833-10	Polyester capacitor (50V0.018μF)	2
C_{207}	141-2223-10	Polyester capacitor (50V0.0022μF)	1

REF.NO.	PART NO. (ORDER NO.)	DESCRIPTION	Q'TY
$C_{260}^{123,124,131,161,171,194,205,206}$	141-2233-10	Polyester capacitor (50V0.022μF)	9
C_{231}	141-2733-10	Polyester capacitor (50V0.027μF)	1
C_{156}	141-3923-10	Polyester capacitor (50V0.0039μF)	1
C_{155}	141-4723-10	Polyester capacitor (50V0.0047μF)	1
$C_{421}^{146,174,202,204,264,266,418,420}$	141-4733-10	Polyester capacitor (50V0.047μF)	9
C_{419}	141-6823-10	Polyester capacitor (50V0.0068μF)	1
$C_{182,248}$	143-1021-50	Polystylen capacitor (1000pF)	2
C_{173}	143-1031-50	Polystylen capacitor (10000pF)	1
$C_{154,164}$	143-2221-50	Polystylen capacitor (2200pF)	2
C_{201}	144-3312-10	Mica capacitor (330pF)	1
$C_{113,117,506}$	150-1007-13	Ceramic capacitor (10pFCH)	3
C_{501}	150-1502-13	Ceramic capacitor (15pFCH)	1
$C_{121,244}$	150-2096-13	Ceramic capacitor (2pFCH)	2
C_{230}	150-2212-50	Ceramic capacitor (220pFTH)	1
C_{150}	150-3612-37	Ceramic capacitor (360pFRH)	1
C_{234}	150-3712-56	Ceramic capacitor (370pFUH)	1
C_{228}	150-3912-56	Ceramic capacitor (390pFUH)	1
C_{407}	150-4702-13	Ceramic capacitor (47pFCH)	1
$C_{116,122,235}$	150-5096-13	Ceramic capacitor (5pFCH)	3
C_{107}	150-6097-13	Ceramic capacitor (6pFCH)	1
$C_{101,103,120}$	150-7097-13	Ceramic capacitor (7pFCH)	3
C_{126}	150-7097-56	Ceramic capacitor (7pFUH)	1
$C_{102,112,135}$	150-8202-13	Ceramic capacitor (82pFCH)	3
C_{125}	150-8202-70	Ceramic capacitor (82pFWK)	1
$C_{105,233,320}$	160-1012-05	Ceramic capacitor (100pFB)	3
C_{190}	160-1512-05	Ceramic capacitor (150pFB)	1
$C_{157,165}$	160-2212-05	Ceramic capacitor (220pFB)	2
$C_{114,144,145,196}$	160-3312-05	Ceramic capacitor (330pFB)	4
C_{191}	160-3322-05	Ceramic capacitor (3300pFB)	1
C_{408}	179-1063-42	Electrolytic capacitor (25V10μF)	1
$C_{100,167,169,176,181,232,236,247,310,412}^{139,147,149,160}$	180-1054-62	Electrolytic capacitor (50V1μF)	14
$C_{223,224,241,402,405,406,417,422}^{140,162,166,168}$	180-1064-32	Electrolytic capacitor (16V10μF)	12
$C_{237,301,302,304,306,307,309,313,315,319}^{115,143,148,177}$	180-2254-62	Electrolytic capacitor (50V2.2μF)	14
$C_{318,401,403}$	180-2264-22	Electrolytic capacitor (10V22μF)	3
$C_{317,410}$	180-2264-32	Electrolytic capacitor (16V22μF)	2
C_{185}	180-2274-32	Electrolytic capacitor (16V220μF)	1
C_{321}	180-3364-32	Electrolytic capacitor (16V33μF)	1
$C_{178,238}$	180-4744-62	Electrolytic capacitor (50V0.47μF)	2
$C_{242,303,308}^{153,159,172,222}$	180-4754-42	Electrolytic capacitor (25V4.7μF)	7
$C_{305,316,502}^{170,180,197,210}$	180-4764-22	Electrolytic capacitor (10V47μF)	7
$C_{311,423}$	180-4764-32	Electrolytic capacitor (16V47μF)	1
C_{409}	180-4774-32	Electrolytic capacitor (16V470μF)	1